Jim Approved Budget Bureau No. 44-R1387 Approval Expires April 30, 1971

U.S. DEPARTMENT OF LABOR

ACE STANDARDS ADMINISTRATION

Bureau of Labor Standards Reference
MATERIAL SAFETY DATA SHEET

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CATA	LYS	1

BOILING POINT (°F.) VAPOR PRESSURE (mm Hg.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Pale yellow liquid, strong amine odor SECTION IV FIRE AND EXPLOSION HAZARD DATA FLASH POINT (Method used) C.O.D. 200°F.			SECT	ION I		
ADDRESS (Number, Sizeti, City) States, and ZIP Code) \$1212 Son Fernando Rd, W., Los Angeles, CA Poly Ethlene triamine CHEMICAL NAME AND SYNONYMS PORMULA Aligh Polymer SECTION II HAZARDOUS INGREDIENTS PAINTS, PRESERVATIVES, & SOLVENTS PAINTS, PRESERVATIVES, & SOLVENTS PIGMENTS BASE METAL CATALYST VEHICLE METALLIC COATINGS VEHICLE METALLIC COATINGS SOLVENTS PILLER METAL PULS COATING OR CORE FLUX OTHERS OTHERS HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES ** ** ** ** ** ** ** ** **					ο.	
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	desired to the second of the s		E AND E			- · · · · · · · · · · · · · · · · · · ·
Water or CO2 or foam.	SECTION IV		E AND E	XPLOSION HAZARD DATA FLAMMABLE LIMITS Let		Uel
SPECIAL FIRE FIGHTING PROCEDURES Water will dilute, cool and also absorb noxious fumes.	SECTION IV FLASH POINT (Method used) C.O.D. 200°F.	FIR		XPLOSION HAZARD DATA FLAMMABLE LIMITS Let		Uel
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Control of the Contro			ECTIO	٧V	HEAL	TH HAZARD DATA
THRESHOLD LIMIT	/ALUE	10 ppm				
EFFECTS OF OVEREXPOSURE Eye and throat irritant, skin contact will cause burns. Strong sensitizer						
•				Trito	Int. sk	In confact will cause burns. Strong sensifizer
WI EMERGENCY AND FI	RST AID P	e dermatiti				
		<u>-</u>	Remove	to f	resh a	ir, flush eyes and skin for 15 min. with water.
Ge	et medi	<u>cal aid for</u>	eyex,	_wa	sh skir	with soap and water. Launder contaminated
clo	othing k	oefore reus	se.			
Tak sakabi Assam sebagai dan	edelaetoliil Teoriotoli	ndrugen versioner. Filosofie	ing a star	94 1	DANA SAN C	
			SECTI	ON	VI R	EACTIVITY DATA
STABILITY	UNST	ABLE		СО	NDITION	S TO AVOID
	STABL	-E	Х			
INCOMPATABILITY	(Materials	to avoid)	\aida a	 		
HAZARDOUS DECOM	MPOSITION		<u>Acids ar</u> None	<u>iiu p</u>	CIOXIO	les
			rone			CONDITIONS TO AVOID
HAZARDOUS POLYMERIZATION	-	MAY OCCUR				CONDITIONS TO AVOID
	1	WILL NOT OC	CUR]	X	•
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						OR LEAK PROCEDURES
STEPS TO BE TAKEN	IN CASE	MATERIAL IS R	Brovio	OR SP	Jeanat	e ventilation and flush to sewer with large
			P10 110	<u></u>	zeqea i	e ventitution and mosti is sawe, with large
quc	antities	of water.				
WASTE DISPOSAL M	ETHOD					
WAGE BIOLOGAE III		Incinera	te			
China de la companya	E-11					
y manganakan diadawan n	RQ Steriotesta → Le	n emercification	भूको सम्बद्धाः है। स	7,14 + 184 - 1		rinalis all 1994, sella, di esta, di esta la les estatos de la companya de la Reflexión de la del de describi
		SECTION	IIIV I	SPE	CIAL F	PROTECTION INFORMATION
RESPIRATORY PROT	ECTION (S	pecify type)	hemico		artrida	e type in closed area.
VENTILATION	LOCA	L EXHAUST Pref	arrad	ar Çç	<u>ar ir Iug</u>	SPECIAL
		FIET IANICAL (Gene	ral)			Exhaust all curing ovens
Acceptable to fresh air.						
· · · · · · · · · · · · · · · · · · ·	Ruk	ber or pol	•			Splash protection goggles.
OTHER PROTECTIVE	EQUIPME	NT Sugge	st prote	ecti	ve skir	1 creams.
and the traffic on the first of the con- traffic of the con-	###5555 15 3 2 4	A STATE OF A STATE	1.0 7 3		. 1 7.	
			SECTIO	N IX	SPE	CIAL PRECAUTIONS
PRECAUTIONS TO E	E TAKEN	IN HANDLING	AND STO	RING	Avoid	temperature extremes and contamination.
					17014	temperature extremes and containing lott.
OTHER PRECAUTIO	NS					
	Sug	gest safety	veye b	ath.	See	Furane Safety bulletin attached.

WE HAVE INSERTED A PRODUCT BULLETIN GIVING
APPLICATION INSTRUCTIONS, A COMPLETE SAFETY
BULLETIN AND OUR WARRANTY STATEMENT WITH THE
SHIPPING DOCUMENTS. WE REQUEST THAT YOU MAKE
EVERY EFFORT TO SEND THESE IMPORTANT DOCUMENTS
TO THE AREAS IN WHICH THE MATERIALS WILL BE USED
AND THE PERSONNEL USING THE MATERIALS.

WARRANTIES:

Except for a warranty that materials substantially comply with the data presented in the technical bulletin (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Furane), all materials are sold "as is" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trade mark or copyright infringement, or as to any other matter. Buyer waives all rights against Furane arising by operation of tort or contract law or otherwise, whether or not such rights arise by reason of the active or passive negligence of Furane. Furane's liability shall not be greater in amount than the price paid to Furane of specific material sold, which is found to be defective.

Any sale of the materials shall be subject to the terms and conditions of Furane's invoice. Trial samples of Furane's products or formulations should be evaluated by Buyer before production use. Buyer should fully understand processing characteristics, toxicity of compounds, and cured properties and performance of the materials. 11–71.



FURANE PLASTICS INCORPORATED A SUBSIDIARY OF MAT CHEMICALS INC.

TECHNICAL BULLETIN

SAFETY PRECAUTIONS

To Be Used In Handling
• Epoxy and Urethane Resins

EP-54-8-D

There are two components which make up most epoxy resin systems:

- 1. The RESIN (with or without filler). (Sometimes labeled "A" Component.)
- 2. The HARDENER, in a fluid or paste-like consistency. (Sometimes labeled "B" Component.)

RESIN

There are several types of epoxy resins—some are safe to handle, others are not safe and should not contact the skin. Some individuals may show allergic tendencies with these materials and should follow precautionary measures noted below. Some resins may have diluents added to facilitate their processing, and these diluents may be harmful or noxious in odor. In either case, follow precautionary measures below.

HARDENER

Hardeners, or cure agents as they are called, differ in their ability to cure resins, as well as their tendency to cause skin irritation or dermatitis. Most room temperature set hardeners are based on polyamines (such as diethylene triamine). If proper precautions are followed, hardeners can usually be handled without difficulty. Safety hardeners are now available, though infrequently an individual shows an allergic reaction to these. This usually appears after repeated or prolonged contact with the hardener. The elevated temperature curing agents are generally aromatic amine or acid anhydrides. Most aromatic amines will tend to discolor the skin. Follow precautions noted below.

Since epoxy formulations have varying degrees of hazard, the Society of the Plastics Industry (SPI) has produced a guide for classification of products for the benefit of the industrial user. With this knowledge, the user should be able to safely handle these products. The hazard category is given in terms of degrees as follows:

- Class 1 Practically non-irritating
- Class 2 Mildly irritating
- Class 3 Moderately irritating
- Class 4 Strong sensitizer
- Class 5 Extremely irritating
- Class 6 Suspected carcinogen in animals.

PRECAUTIONARY MEASURES (Read Carefully)

- 1. Mix and apply materials in well ventilated areas, preferably with a forced air draft to carry away fumes. Ovens used to heat cure epoxies should be safely ventilated to outside areas.
- 2. Avoid contact of materials with the skin. Use rubber gloves, preferably with a cloth liner, to absorb perspiration.
- 3. Wear protective clothing when material contact is anticipated. Long rubber or vinyl coated gloves with cloth interiors are suggested, and goggles or eye shields to protect the eyes if splashing of the hardener occurs.
- 4. Observe good personal hygiene. Avoid contaminating clothing or the inside of gloves. Use soap and warm water at frequent intervals to clean hands and **do not** use strong cleaning solvents such as acetone or methyl ethyl ketone which dissolve protective oils from the skin. If cleaning of epoxy resin from clothing is necessary, a 50:50 mixture of denatured alcohol and toluene is suggested. Use denatured alcohol only to clean hands or skin.
- 5. Maintain good housekeeping and do not leave deposits of epoxy resins or hardeners on work areas, bottles, door-knobs, etc. Wipe off immediately with paper towels or rags. Use disposable mixing containers and throw-aways wherever possible.
- 6. Some individuals find that the application of barrier creams to hands and face is desirable before beginning work. (West Disinfectant 411 and Kerodex are among creams found satisfactory at Furane. Your physician can recommend others.) Reapply barrier creams after washing hands.
- 7. Should skin afflictions or irritations appear, qualified medical help must be obtained. He should be informed that skin irritation could have been caused by aliphatic polyamines. In uncomplicated cases, the skin irritations will disappear quickly, and in serious cases, it may require a few days to clear. In general, irritations may reappear when work is resumed, unless adequate protection is followed.

Page 1 of 2 pages

5121 SAN FERNANDO RD. WEST, LOS ANGELES, CALIF. 90039 (213) 247-6210 • TWX (910) 497-2060



P. O. BOX 791 RAHWAY, NEW JERSEY 07065 (201) 499-2551 TWX 710-996-5842

Before beginning to use material, please read carefully Furane's bulletin outlining safety precautions, operating procedures, and non-warranty features.

The suggestions and methods of application described in this instruction sheet have been based upon careful laboratory investigations. Since operating conditions in the fabricator's plant are beyond our control, Furane Plastics cannot assume responsibility for any risks or liabilities which may result from the use of its products. It is recommended that trial samples be evaluated before production applications of epoxy resins are attempted, in order to familiarize personnel with curing and handling properties of the material. In any event, liability shall be limited to cost of material purchased from Furane. Unless otherwise indicated, this material is to be considered past its storage life twelve (12) months after delivery to customer.

SAFETY PRECAUTIONS

To Be Used In Handling Epoxy and Urethane Resins

EP-54-8-D

Persons who are know to be particularly susceptible should be immediately transferred to work which entails no risk whatsoever of dermatitis.

- 8. These materials are for professional and industrial use only and should be kept away from children.
- 9. If you have any doubts or skin irritations, see your doctor for professional guidance.

SAFETY PRECAUTIONS WHEN USING URETHANES

The general precautions applicable to handling the components of an epoxy system are applicable to the handling of urethanes. Please read and put into practice recommendations shown above.

Urethane reaction materials which involve isocyanates are potentially hazardous in both the liquid and vapor states. They may act as irritants to the skin and mucous membranes, especially the eyes and upper respiratory regions, where in some allergic individuals asthma-like attacks may occur. Concentrations below the odor threshhold may affect sensitive persons who are subject to hayfever and asthma. If you suspect problems or show skin sensitivity, see your doctor for professional guidance.

Skin exposure should be avoided, and accidental spillage must be thoroughly removed by washing with soap and water. Eyes should be irrigated with large quantities of water and a physician consulted. To avoid hazards when working continually in a urethane atmosphere, protective clothing, eye shields, and gloves are suggested, as well as outside air-supplied respirators where vapor concentrations are high.

There are certain types of resins and hardeners which are considered more toxic than others. In keeping with industry requirements, a special precautionary label is

affixed to the containers. The language of the label is as follows:

"DANGER-Prolonged or repeated contact of liquid or breathing of vapors or mists may cause delayed and serious injury. Do not get on skin or clothing. Avoid inhalation of vapor or mists. In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and wash thoroughly before reuse."

The following notice applies to Furane's resin systems:

NOTICE

The suggestions and methods described in individual product technical bulletins, information sheets, or explanatory labels have been based upon careful laboratory investigations. Since operating conditions in the fabricator's plant are beyond our control, Furane Plastics cannot assume responsibility for any risks, or liability, due to any personal injury or property damage which may result from the use or handling of its products whether or not in accordance with directions. The buyer assumes all risk and liability from such handling, storage, or use of these materials and accepts and uses these materials on these conditions.

It is recommended that experimental samples of urethane and epoxy resins and hardeners be evaluated before production applications commence in order to familiarize personnel with curing and handling properties of the materials. For experimental and production use of urethane and epoxy resins and hardeners, the importance of cleanliness, protective clothing, and good ventilation should be emphasized.

In the event any individuals show any allergic tendencies to the materials used, consult your physician or plant safety department at once for professional advice.



U.S. DEPARTMENT OF LABOR WORKPLACE STANDARDS ADMINISTRATION BUREAU OF LABOR STANDARDS

FORM NO	OSH	A-20 (MODIFIED)
	MAY	1971

MDC CONTROL NO._

MATERIAL SAFETY DATA SHEET

SECT	ION I: MATE	RIAL AND MA	ANUFACTURER IDENTIFICATION	· · · · · · · · · · · · · · · · · · ·	
MANUFACTURER'S NAME	EMERGENCY TELEPHO	ONE NO.			
ADDRESS (NUMBER, STREET, CITY, STATE AND Z	IP CODE)	·		<u> </u>	
CHEMICAL NAME AND SYNONYMS			TRADE NAME AND SYNO	NYMS	
CHÉMICAL FAMILY			FORMULA		
	SECTI	ON II: HAZAF	L RDOUS INGREDIENTS*		
PAINTS, PRESERVATIVES/SOLVENTS	%	TLV (UNITS)	ALLOYS AND METALLIC	COATINGS %	ŢĻŲ (UNITS)
PIGMENTS		<u> </u>	BASE METAL		(=:::::::::::::::::::::::::::::::::::::
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX	· · · · · · · · · · · · · · · · · · ·	
ADDITIVES		-	OTHERS		
OTHERS					
HAZARDOUS	MIXTURES	OF OTHER I	LIQUIDS, SOLIDS, OR GASES*	9,	TLV (UNITS)
			- 400	·	(60007)
	Š	ECTION III: F	PHYSICAL DATA		<u> </u>
BOILING POINT (⁰ F)	-		SPECIFIC GRAVITY (H ₂ O = 1)		
VAPOR PRESSURE (mm Hg.)			PERCENT VOLATILE BY VOLUME (%)		
VAPOR DENSITY (AIR = 1)	EVAPORATION RATE				
SOLUBILITY IN WATER		- 			
APPEARANCE AND ODOR		l			
 	SECTION IV	: FIRE AND E	EXPLOSION HAZARD DATA		·····································
FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	Lel	Uel		
EXTINGUISHING MEDIA			 		· !
SPECIAL FIRE FIGHTING PROCEDURES			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
		` ,		-	
UNUSUAL FIRE AND EXPLOSION HAZARDS					

*PLEASE DO NOT USE GENERALIZATIONS, SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES. USE SPECIFIC CHEMICAL NAMES, SUCH AS METHANOL, BENZENE, PERCHLOROETHYLENE.

THRESHOLD LIMIT VA	I II F	SE	CTION V: HEAL	TH HAZARD DATA			
		<u> </u>					
EFFECTS OF OVEREX	POSURE						7 . 1
		· .					_
EMERGENCY AND FIR	ST AID PROCEDURES						
							
	· -		ECTION VI: RE	ACTIVITY DATA		<u> </u>	
,	UNSTABLE		ITIONS TO AVO				
STABILITY	STABLE				-		
INCOMPATIBILITY (MA	TERIALS TO AVOID)						
HAZARDOUS DECOMPO	DSITION PRODUCTS						
			CONDIT	IONS TO AVOID			
HAZARDOUS	MAY C	CCUR	John				
POLYMERIZATION	WILL	NOT OCCUR					
				<u></u>			
STEPS TO BE TAKEN	N CASE MATERIAL IS	SECTION RELEASED OR	ON VII: SPILL (SPILLED	OR LEAK PROCEDU	JRES		(ATE)
			·				
						·	
WA OTE DIODOCAL MET	1100		<u>.</u>				
WASTE DISPOSAL MET	<u></u>				<u> </u>		
	1						
							
RESPIRATORY PROTE	CTION (SPECIEV TVD	SECTION V	III: SPECIAL P	ROTECTION INFOR	RMATION		
MESI MATORT I NOTE							
VENTILATION	LOCAL EXHAUST				SPECIAL		
MECHANICAL		L (GENERAL)			OTHER		
PROTECTIVE GLOVES			-	EYE PROTECTION	ON		
OTHER PROTECTIVE I	EQUIPMENT						
		SEC	CTION IX: SPEC	IAL PRECAUTIONS			
PRECAUTIONS TO BE	TAKEN IN HANDLING	AND STORING				-	
OTHER PRECAUTIONS							1.7.
	-						
PREPARED BY	<u> </u>		DATI				